

Please find below and/or attached an Office communication concerning this application or proceeding.

Docketed By Practice Systems
Action Code: Respect Reg .
Base Date: 1-22-04
Due Date: 2-22-04
Deadline: 7-22-04
Initials: Proceeding Record:

Docketed By Billing Secretary
Due Date: ਪ੍ਰਤਮ੍ਹਿਮ
Deadline: 기술ਮੁਮ Initials: ਪੁਲਿਆ ਕ੍ਰੀਮਹਿਪ

| Office Action Summer |
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| Office Action Summers The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Estensions of time may be available under the provisions of 37 CFR 1.135(a). In no event, however, may a reply be timely filed after Stx (6) MONTHS from the mailing date of the communication appears on the statutory minimum of thirty (30) days will be considered timely. - If the period for reply is specified above is less than thirty (30) days, a reply within the statutory printimum of thirty (30) days, and the statutory printimum of thirty (30) days will be considered timely. If NO period for reply is specified above is less than thirty (30) days, a reply within the statutory printimum of thirty (30) days, and the statutory printimum of the printing date of this communication. Failure to reply within the set or extended period for reply will, by statutory printimum of the printing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on |
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| 5 1, 12 1(d) |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. |
| riority under 35 U.S.C. §§ 119 and 120 |
| |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: |
| 1. Certified copies of the priority documents have been received. |
| 2. Certified copies of the priority documents have been received in Application No. |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage |
| application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. |
| 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application |
| since a specific reference was included in the first sentence of the specification or in an Application Data Shee |
| 37 CFR 1.78. |
| a) The translation of the foreign language provisional application has been received. |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. |
| ttachment(s) |
| Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) |
|) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other: |
| Patent and Trademark Office OL-326 (Rev. 11-03) Office Action Summary Part of Paper No. 01162004 |

RESTRICTION INTO GROUPS

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

(1). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(2). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(3). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(4). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

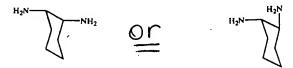
as set forth in claim 2, classified in class 424, subclass 9.3.

(5). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

$$H_{2N}$$
 N
 N
 N
 N

as set forth in claim 2, classified in class 424, subclass 9.3.

(6). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety



as set forth in claim 2, classified in class 424, subclass 9.3.

(7). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety



as set forth in claim 2, classified in class 424, subclass 9.3.

(8). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(9). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(10). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(11). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(12). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 22, classified in class 424, subclass 9.3.

(13). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(14). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(15). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N N 1.G

as set forth in claim 24, classified in class 424, subclass 9.3.

(16). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N N LG

as set forth in claim 24, classified in class 424, subclass 9.3.

(17). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(18). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(19). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(20). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N LG

as set forth in claim 25, classified in class 424, subclass 9.3.

(21). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N LG

as set forth in claim 25, classified in class 424, subclass 9.3.

(22). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(23). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(24). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(25). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(26). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(27). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(28). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(29). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(30). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(31). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(32). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(33). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(34). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

- (35). Claims 46-55, drawn to a contrast agent comprising a metal chelate complexed at a –CO2R and NHR termini of a biopolymer, wherein R is independently selected from the group consisting of hydrogen, alkyl, aliphatic, or a leaving group as set forth in independent claim 46, classified in class 424, subclass 9.3.
- (36). Claim 66 is, drawn to a modified peptide

as set forth in claim 66, classified in class 424, subclass 9.3.

(37). Claim 67 is, drawn to a modified peptide

$$(Linker)_{p} \cdot (Linker-subunit)_{s} = \begin{bmatrix} R^{2} & O \\ N & R^{1} \end{bmatrix}$$

$$(Linker-subunit)_{s} \cdot (Linker)_{p}$$

as set forth in claim 67, classified in class 424, subclass 9.3.

(38). Claims 34, 36-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety not encompassed in Groups (1) – (33) above, classified in class 424, subclass 9.3.

Note: Claims appearing in more than one group will only be examined to the extent that they read on the elected invention.

2. The inventions are distinct, each from the other because of the following reasons:

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Inventions (1)-(38) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions (Groups (1) – (34) and (38) are directed to methods of making an MRI agent wherein the linker-subunits for making the agents are structurally different. Thus, prior art anticipating or rendering one linker-subunit-peptide combination group would neither anticipate nor render obvious another group. Hence, there is no common core present in the linker-subunit core. As a result, the inventions are distinct. Likewise, the modified peptide groups, Groups (35) - (37), are unrelated because one is directed to a peptide structure having a chelate thereto and the other modified lacks the present chelate attachment. Thus, they are structurally different and distinct inventions. Furthermore, it should be noted that for each group above, a separate search of the prior art is required in order to determine if the inventions are distinguished over the prior art.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

ELECTION OF SPECIES

4. Claims 1-77 are generic to a plurality of disclosed patentably distinct species comprising peptide based targeting agents. In particular, the targeting agents may comprise a multitude of linker-subunits as set forth in claims 2, 24-26, and 35 or a modified peptide structure as set forth in claims 46, 66, and 67. Applicant is required under 35 U.S.C. 121 to *elect a single disclosed species* for search purposes, even though this requirement is traversed.

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<u>Note</u>: The Examiner respectfully requests that Applicant elect a species from within the elected group. Applicant should identify the components of the peptide-linker-subunit combination and all the variables associated with the component. For example, if Group XXXVII is elected, Applicant should identify the linker-subunit, linker moiety (define linker variables, if necessary, i.e., R' = H), precursor chelate moiety (identify variables), and covalent conjugate (identify variables thereof). In addition, Applicant is respectfully requested to state which claims are drawn to the elected species.

- 5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 6. Due to the complexity of the restriction requirement, a telephone call was not made to request an oral election to the above restriction requirement.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (703) 308-4640. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (703) 308 - 2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Note: After February 2, 2004, the Examiner may be reached at (571) 272-0617 and the Examiner's supervisor at (571) 272-0602.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

D. L. Jones/
Primary Examiner
Art Unit 1616

January 16, 2004